

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES****OFFICE ENGINEER**1727 30th Street MS-43

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July 16, 2012

04-SF-80-12.6/13.9

04-0120T4

Project ID 0400000027

Addendum No. 4

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN THE CITY AND COUNTY OF SAN FRANCISCO FROM THE YERBA BUENA TUNNEL TO 1.3 KM EAST OF THE YERBA BUENA TUNNEL.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Tuesday, September 25, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 24, 39, 41, 45, 56, 57, 58, 59, 61, 64, 67, 70, 81, 85, 87, 88, 89, 97, 101, 103, 106, 109, 118, 122, 127, 129, 131, 145, 175, 213, 214, 215, 216, 229, 244, 245, 249, 252, 253, 254, 258, 262, 264, 268, 272, 274, 275, 277, 278, 280, 292, 322, 323, 325, 332, 333, 334, 335, 337, 339, 341, 346, 354, 361, 444, 447, 448, 449, 450, 451, 535, 536, 657, 658, 659, 660, 661, 662, 663, 664, 701, 702, 703, 704, 705, 706, 707, 708, 727, 728, 729, 815, 818, and 819 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 249A, 267A, 267B, 268A, 269A, 275A, 290A, 292A, 295A, 300A, 304A, 309A, 309B, 309C, 315A, 315B, 315C, 318A, 319A, 320A, and 536A are added. Copies of the added sheets are attached for addition to the project plans.

Project Plan Sheets 51, 760, 761, 762, 763, 764, 765, 798, 799, 800 and 801 are deleted.

In the Special Provisions, Section 2-1.03, "SUBMITTALS WITH BID," the first sentence of the first paragraph is revised as follows:

"The Contractor shall perform complete 3-D structural computer analysis and evaluation of the Cantilever Truss for the planned removal procedure. The analysis shall include 3-D erection analysis to determine locked-in forces in truss members and 3-D dismantling analysis."

In the Special Provisions, Section 2-1.03, "SUBMITTALS WITH BID," the first paragraph, item 1a is revised as follows:

"a. The removal sequence shall conform to the removal sequence shown on plan sheet titled "Existing Cantilever Truss Demolition, Removal Sequence."

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In the Special Provisions, Section 2-1.035, "PRE-BID ENGINEER QUALIFICATIONS EVALUATION," is added as attached.

In the Special Provisions, Section 3-1.01, "PRE-AWARD QUALIFICATIONS REVIEW," is revised as attached.

In the Special Provisions, Section 5-1.025, "SUBCONTRACTING," is revised as attached.

In the Special Provisions, Section 5-1.17, "SPECIES PROTECTION," subsection "Monitoring Schedule," is revised as follows:

Monitoring Schedule

Monitor according to the following schedule:

Monitoring Type	Schedule
Migratory bird monitoring January 1 st to August 31 st	Monitor at least 5 days during a 7-days period. One monitoring event must take place on a Saturday or Sunday.
Migratory bird monitoring September 1 st to December 31 st	Monitor one day per week

In the Special Provisions, Section 5-1.27, "AREAS FOR CONTRACTOR'S USE," the table "Availability of Areas for Others' Use" is revised as follows:

Availability of Areas for Others' Use

Others	Areas for Others' Use	Date
04-0120S4	Area PR	Until January 1, 2014
04-0120F4	Area FP	Until January 1, 2014
04-0120F4	Area FT	Until January 1, 2014
04-3A6404	Area TA1	After June 1, 2014
	Area TA3	After June 1, 2014
	Area A	After January 1, 2014

In the Special Provisions, Section 5-1.27, "AREAS FOR CONTRACTOR'S USE," the table "Availability of Areas for Contractor's Use" is revised as follows:

Availability of Areas for Contractor's Use

04-0120T4	Area TA1	From January 1, 2014 to June 1, 2014
	Area TA3	From January 1, 2014 to June 1, 2014
	Area T	After January 1, 2014
	Area CG	After January 1, 2014

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In the Special Provisions, Section 10-1.27, "TEMPORARY SUPPORTS (CANTILEVER TRUSS)," subsection "TEMPORARY SUPPORT DESIGN AND DRAWINGS," the first paragraph is revised as follows:

"The Contractor shall submit to the Engineer working drawings and design calculations for the temporary supports. The temporary support working drawings and design calculations shall conform to the requirements in "Working Drawings" of these special provisions except that the Engineer's approval is not required. Such drawings and design calculations shall be stamped and signed by an engineer who is registered as Civil Engineer in California and shall be independently checked, stamped and signed by another engineer who is registered as Civil Engineer in California. The independent check shall include all analysis and calculations necessary to independently check temporary support working drawings. The engineer and the check engineer shall have the same experience and qualifications as the engineer and check engineer who prepare the bridge removal plan as specified in section "Bridge Removal Portion (Cantilever Truss)." The check engineer shall not be an employee of the Contractor and shall be employed by an independent firm. Independent check calculations shall be submitted with the working drawings."

In the Special Provisions, Section 10-1.27, "TEMPORARY SUPPORTS (CANTILEVER TRUSS)," subsection "TEMPORARY SUPPORT DESIGN AND DRAWINGS," the fourth paragraph is revised as follows:

"The temporary support working drawings shall include descriptions and values of all loads, including construction equipment loads, descriptions of equipment to be used, complete details and calculations for jacking and supporting the existing structure, and descriptions of the displacement monitoring system. The displacement monitoring system shall include equipment to be used, location of control points, method and schedule of taking measurements, and shall also include provisions to jack the structure if required by the Contractor's bridge removal plan or if settlement occurs in the temporary supports."

In the Special Provisions, Section 10-1.42, "MAINTAINING TRAFFIC," the remark in Chart No. 5 is revised as follows:

"This chart shall be used only seven times."

In the Special Provisions, Section 10-1.53, "EXISTING HIGHWAY FACILITIES," subsection "RECONSTRUCT CANTILEVER SWING GATE (TYPE METAL)," is revised as attached.

In the Special Provisions, Section 10-1.58, "BRIDGE REMOVAL, PORTION (CANTILEVER TRUSS)," the thirteenth paragraph, item 1 is revised as follows:

"1. The removal sequence shall conform to the removal sequence shown on plan sheet titled "Existing Cantilever Truss Demolition, Removal Sequence."

In the Special Provisions, Section 10-1.58, "BRIDGE REMOVAL, PORTION (CANTILEVER TRUSS)," the fourteenth paragraph, item 1 is revised as follows:

"1. Complete 3-D structural computer analysis and evaluation of the Cantilever Truss for the planned removal procedure. The analysis shall include 3-D erection analysis to determine locked-in forces in truss members and 3-D dismantling analysis."

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In the Special Provisions, Section 10-1.58, "BRIDGE REMOVAL, PORTION (CANTILEVER TRUSS)," the fourteenth paragraph, item 4 is revised as follows:

"4. Methods and details for member or connection strengthening including installation of new members on existing structure."

In the Special Provisions, Section 10-1.58, "BRIDGE REMOVAL, PORTION (CANTILEVER TRUSS)," the seventeenth paragraph is revised as follows:

"Prior to preparation of the bridge removal plan, the Contractor's engineer and the check engineer shall provide documentation that verify their qualifications for the Engineer's approval. Documentation shall include resumes with qualifying project information including the name of the project, project owner's name, address and telephone number. At the Engineer's request, additional documentation shall be provided including copies of complete set of approved, stamped plans used for the construction of the qualifying erection, dismantling or retrofit projects. The requirement for documentation submittal will be waived if the engineer and the check engineer that will prepare the bridge removal plan are the same persons who submitted documentation and have been previously approved as specified in section "Submittals With Bid" of these special provisions."

In the Special Provisions, Section 10-1.113, "CLEAN AND PAINT MISCELLANEOUS FACILITIES," subsection "GENERAL," the first paragraph, item 5 is revised as follows:

"5. Proof of each of any required certifications, SSPC-QP 1 and SSPC-QP 3.

5.1. In lieu of certification in conformance with the requirements in SSPC-QP 1 for this project, the Contractor may submit written documentation showing conformance with the requirements in Section 3, "General Qualification Requirements," of SSPC-QP 1."

In the Special Provisions, Section 10-1.132, "TYPE METAL FENCE," is revised as attached.

In the Special Provisions, Section 10-1.1325, "ANTI-CLIMB FENCE AND GATE," is added as attached.

In the Special Provisions, Section 10-1.138, "CHAIN LINK FENCE AND GATE (TYPE CL-2.4, BLACK VINYL CLAD WITH EXTENSION ARM)," is deleted.

In the Special Provisions, Section 10-1.1385, "CHAIN LINK FENCE AND GATE (TYPE CL-2.4 WITH EXTENSION ARM)," is added as attached.

In the Special Provisions, Section 10-1.1386, "STAINING GALVANIZED CHAIN LINK FENCE AND GATE SURFACES," is added as attached.

In the Special Provisions, Section 10-1.139, "CANTILEVER SWING GATE (TYPE CL-2.4, BLACK VINYL-CLAD WITH EXTENSION ARM)," is deleted.

In the Special Provisions, Section 10-1.1395, "CANTILEVER SWING GATE (TYPE BI-FOLD SPEED GATE)," is added as attached.

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In the Special Provisions, Section 10-1.140, "CANTILEVER SWING GATE (TYPE METAL)," is revised as attached.

In the Special Provisions, Section 10-3.01, "DESCRIPTION," listing 3.12.5 is added as follows:

"3.12.5 Install conduit pull boxes and wiring in barrier."

In the Special Provisions, Section 10-3.01, "DESCRIPTION," listing 7.10 is deleted.

In the Special Provisions, Section 10-3.10, "UNDERGROUND RACEWAYS," subsection "DUCT BANKS," the first paragraph is revised as follows:

"Underground conduits shall be Type 1 encased in concrete. Concrete for conduit encasement shall be 28 MPa test with aggregate of 20 mm or smaller."

In the Special Provisions, Section 10-3.11, "SUPPORT HARDWARE FOR CONDUITS, CABLE TRAYS AND WIREWAYS," subsection "EMBED STRUT CHANNEL," the second paragraph is revised as follows:

"Embed strut channels cast in pre-formed concrete shall be installed at the time of casting and not after. Embed struts shall be manufactured from 12-gage hot-dip galvanized rolled steel unless otherwise noted in the plans. Where stainless steel embed channel is specified in the plans, it shall be Type 316. Load ratings shall have a safety factor of 3. An electro-galvanizing and dichromate finishing process shall be applied after fabrication to achieve a 13 µm electro-galvanizing plating. The channels shall be of a standard size to accommodate standard channel fittings and nuts."

In the Special Provisions, Section 10-3.12, "PULL BOXES, SPLICE BOXES AND JUNCTION BOXES," subsection "NEMA TYPE 4X STAINLESS STEEL PULL BOXES," the first paragraph is revised as follows:

"The body and the cover plate of the NEMA Type 4X enclosure shall be made of 14-gage Type 316L stainless steel. The seams shall be continuously welded and ground smooth, no holes or knockouts. It shall have a seamless foam-in-place gasket that assures watertight and dust-tight seal. The gasket and adhesive shall be oil-resistant. All exterior hardware shall be Type 316L stainless steel."

In the Special Provisions, Section 12-1.01, "SCOPE," the second paragraph, item 4 is deleted.

In the Special Provisions, Section 12-16.03, "ELECTRICAL EQUIPMENT," subsection "PANELBOARDS," the first paragraph is revised as follows:

"Loadcenter G

Loadcenter G shall be indoor type, surface-mounted, factory assembled, 3-phase, 4-wire, 120/208-volt, AC loadcenter at most 380 mm wide by 760 mm high with minimum 125-ampere main lugs, and factory installed backfeed 60 ampere, 3 pole circuit breaker, insulated groundable neutral, hinged door and molded case branch circuit breakers as shown on the plans. Loadcenter shall be Cutler Hammer, Catalog No. 33R3030N100; Square D, Catalog No. Q0327M100, or equal."

In the Bid book, in the "Bid Item List," Items 39, 112, 113, 114, 118, 121, 123, 147, 148, 184, 185, 193, 197, 202, 204 and 209 are revised, Items 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283 and 284 are added and Items 210, 213, 214, 216, 217, 218, 220 and 272 are deleted as attached.

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To Bid book holders:

Replace pages 4, 12, 13, 14, 16, 17, and 20 of the "Bid Item List" in the Bid book with the attached revised pages 4, 12, 13, 14, 16, 17, 20 and 20A of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-0120T4

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL
Chief, Office of Plans, Specifications & Estimates
Office Engineer
Division of Engineering Services

Attachments

2-1.035 PRE-BID ENGINEER QUALIFICATION EVALUATION

Potential bidders may request pre-bid determination of the experience and qualifications of the engineer and check engineer the bidder proposes to use for the design of the dismantling of the Cantilever Truss. Letters will be sent to bidders who have requested Bid Books, with a pre-addressed envelope included for submitting the resumes.

Submittals must be received by the Department's Bidder's Exchange **no later than 4:00 p.m. on Thursday, July 26, 2012** sealed in the envelope provided. Submittals received after that time will be returned unopened to the bidder for later submittal with the bid.

The resume for an engineer shall not exceed 8 pages. The Department will not accept the resumes for more than 3 engineers and 3 check engineers from each bidder for the pre-bid determination process.

The Engineer will make a determination of the bidders' engineers' qualifications based on the requirements specified in "Submittals With Bid" of these special provisions. Determination of the engineers' qualifications will be made in conformance with the provisions in "Pre-Award Qualifications Review" of these special provisions and will be considered part of that process. If the Engineer determines that a review meeting is necessary, the bidder will be notified, and a date mutually set.

The Department will provide results of the pre-bid evaluation by Friday, August 6, 2012, by letter to the bidder.

Bidders are notified that the Engineer's determination of the bidders' engineers' qualifications is based solely on the requirements specified in "Submittals With Bid" of these special provisions and is not a determination of the engineers' qualifications to design the dismantling utilizing the means and methods proposed by the bidder.

3-1.01 PRE-AWARD QUALIFICATIONS REVIEW

The Engineer will review the documentation submitted in conformance with the requirements in "Submittals With Bid" of these special provisions and the responses to the "Pre-Award Qualifications Questionnaire." The Engineer will make a determination on the bidder's qualifications for performing the work in a manner that is safe for the workers and the public, based on the bidder's experience and qualifications.

If the Engineer determines it necessary, a pre-award qualifications review meeting will be conducted by an agent of the Director, and the apparent low bidder shall participate. Notification of whether a meeting will be conducted will be provided on or before the first Thursday following the time indicated in the "Notice to Contractors" for the opening of bids. The meeting, if held, will be on second Thursday following the time indicated in the "Notice to Contractors" for the opening of bids at 10:00 a.m. in the third floor conference room, 1727 30th Street, Sacramento, CA. 95816. Non-attendance by the apparent low bidder at the pre-award qualifications review meeting shall be just cause for rejection of the bid and forfeiture of the proposal guaranty.

At the pre-award qualifications review meeting, the low bidder shall provide an authorized representative prepared to discuss and answer questions relative to the responses to the "Pre-Award Qualifications Questionnaire." If the bidder is not qualified to perform the demolition work with its own forces, appropriate representatives from the proposed qualified subcontractors shall also attend the meeting. The bidder's engineer or check engineer shall attend if required in the notification.

Prior to award, the Director's agent will prepare written findings and recommendations to the Engineer regarding award of the contract to the apparent low bidder based on the documentation submitted in conformance with the requirements in "Submittals With Bid" of these special provisions, the responses to the "Pre-Award Qualifications Questionnaire," and the information provided at the pre-award qualifications review meeting, if held. Award of the contract to the apparent low bidder will be based on the Engineer's determination that the bidder is the lowest responsible bidder, possessing the necessary attributes to satisfactorily perform the contract.

The decision of the Engineer regarding the bidder's qualifications shall be final.

The second and third apparent bidders shall participate in pre-award qualifications review meetings if requested to do so by the Department. Notification by the Department will be provided at least 48 hours prior to the pre-award qualifications review meeting. Non-attendance by the second or third apparent low bidder at any such requested meeting shall be just cause for rejection of bid and forfeiture of the proposal guaranty.

The experience and qualifications of supervisory and engineering personnel designated to replace those listed in the documentation submitted in conformance with the requirements in "Submittals With Bid" of these special provisions and the responses to the "Pre-Award Qualifications Questionnaire" will be subject to review by the Department.

Successful completion of the pre-award qualifications process does not relieve the Contractor of the responsibility for completing the work as described in the project plans and the specifications.

5-1.025 SUBCONTRACTING

Comply with the provisions in Subsection 5-1.055A, "General," of Section 5-1.05, "Subcontracting," of the Standard Specifications, and these special provisions.

Perform work equaling at least 30 percent of the value of the original total bid with your employees and with equipment owned or rented by you, with or without operators, except that the work for Bridge Removal (Portion), Location G may be performed by subcontract and the bid item price of that work may be deducted from the original total bid before computing the amount of work you must perform. If you subcontract a portion of the item Bridge Removal (Portion), Location G, the value of work subcontracted is based on the estimated percentage of the bid item price, determined from information you submit, and subject to the Engineer's approval.

RECONSTRUCT CANTILEVER SWING GATE (TYPE METAL)

Existing cantilever swing gate (Type Metal), at the locations shown on the plans, shall be removed and reconstructed at new location.

New electrically controlled gate operator including card key, and vehicle detection systems may be required for reconstructing cantilever swing gate (Type Metal).

Comply with "YBI Electrical Utility Relocations" of these special provisions, for electronically controlled gate operators, operated gate control hardware, and vehicle detection systems.

If required, the new electrically controlled gate operator shall be a heavy duty gate operator from one of the following manufacturers:

1. Elite Access System Inc.
25741 Commercentre Drive, Lake Forest, CA 92630
Telephone No.: (949) 580-1700
Model: CSW-200-UL-1HP-PK
2. Doorking, Inc.
120 Glasgow Ave. Inglewood, CA 90301
Telephone No.: (800) 826-7493
Model 6300 – 1HP motor
3. Eagle Access Control Systems, Inc
3133 Saticoy St. North Hollywood, CA 91605
Telephone No.: (818) 764-6690
Model Eagle 200-DM
or equal

The gate shall have a control that allows the gate to be locked open.

The contract unit price paid for reconstruct cantilever swing gate (Type Metal) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in reconstructing cantilever swing gate (Type Metal) complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for installing gate operators, operated gate control hardware, and vehicle detector systems, as shown on the plans shall be considered as included in the contract lump sum price paid for YBI electrical utility relocations and no separate payment will be made therefor.

Fence (Type Metal) removed in excess of that required for reconstructing cantilever swing gate (Type Metal) shall be disposed of.

Full compensation for removing and disposing of excess fence (Type Metal) shall be considered as included in the contract unit price paid for reconstruct cantilever swing gate (Type Metal) and no separate payment will be made therefor.

10-1.132 TYPE METAL FENCE

Type metal fence and gate shall conform to the provisions in Section 80, "Fences," of the Standard Specifications and these special provisions.

This work shall include furnishing and installing metal fence and gate at the United States Coast Guard Quarter 8, Quarter 9, near the guard booth and along retaining wall 51 as shown on the plans.

The new Type metal fence and gate shall match the appearance of the existing metal fence and gate.

SUBMITTALS

The Contractor shall submit the Manufacturer's descriptive data, material specifications and layout drawings for the Type metal fence and gate, and accessories for the Engineer's approval.

MATERIALS

Type metal fence and gate shall be 2.4 meter high ornamental picket fence with curved pressed spike ends. The height of the fence is measured from the top of the fence to ground level. Pickets, rails, and posts shall be manufactured from galvanized steel tubing meeting the requirements of ASTM A513 or A500 Grade B and ASTM A36. The finish for all fence and gate materials shall be hot dip galvanized in accordance with ASTM A653 with a minimum zinc coating of G90. Galvanized framework shall have an electrostatic powder coating system.

The color shall be black.

Pickets shall be square tube, 16 gauge, with outwardly curved pressed point ends. Pickets shall be sized to match existing pickets. Top and bottom rails shall be steel square U channels, 14 gauge. Top and bottom rails shall be sized to as required to match existing pickets. Posts shall be square tube, 14 gauge. Posts shall be a minimum of 64 millimeters square.

Maximum spacing between pickets shall be 100 millimeters. The bottom of the fence shall be a maximum of 100 millimeters from finish grade. Fence shall not contain horizontal members other than top and bottom rails.

Attaching hardware shall be stainless steel. Bolt diameters shall be a minimum of 10 millimeters. Mild steel hardware is not acceptable.

The gates shall consist of a one 1.5-m gate panel. Gate posts shall be a minimum of 100 millimeters square.

INSTALLATION

Type metal fence including concrete anchor for the fence post and Type metal gate shall be installed in conformance with Manufacturer's specifications.

PAYMENT

The contract price paid per meter for Type metal fence shall include full compensation for furnishing all labor, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing Type metal fence, complete in place, including excavating holes, backfilling, disposing of surplus excavated material, and furnishing and placing portland cement concrete footings, and connecting new fences to structures and existing cross fences, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The contract unit price paid for Type metal gate of the type and size listed in the Engineer's Estimate shall include full compensation for furnishing all labor, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing Type metal gate, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.1325 ANTI-CLIMB FENCE AND GATE

GENERAL

This work includes furnishing and installing anti-climb fence and gates, 2.4-m in height with barbed wire extension arms, in conformance with the details shown on the plans and as specified in these special provisions. The height of the fence is measured from the top of the fence to ground level.

Submittals

The Contractor shall submit the Manufacturer's descriptive data, material specifications, layout drawings for the anti-climb fence and gates, and accessories for the Engineer's approval.

MATERIALS

The allowable alternatives for anti-climb fences and gates shall consist of one of the following or a Department approved equal:

1. Riverdalemills Inc.
130 Riverdale Street, Northbridge, MA 01534
Phone: (800) 762-6374
Model: Wirewall, High Security Fencing
Panel Model No.: 1238 GAN
Post Model No.: SCH40 GAN
2. High Security Fence Systems L.L.C.
119 Drum Hill Road, Suite 104, Chelmsford, MA 01824
Phone: (978) 319-9222
Model: Anti-Cut, Anti-Climb Fence
Panel Model No.: .538 GAW
Post Model No.: Super C Post 3.252.5.130 GAIV
3. Ameristar Fence Products Inc.
1555 N. Mingo Road, Tulsa, OK 74116
Phone: (888) 333-3422
Model: Wireworks Anti-Cut, Anti-Climb Fence
Panel Model No.: 5WAB0808
Post Model No.: 3PB3132W-3

The panel fabric for the anti-climb fence and gate shall be 8-gage (3.26-mm dia.), Type IV, Class B, bonded vinyl coated fabric, conforming to the requirements in AASHTO Designation: M 181. The color shall be black. The openings in the panel fabric shall be 12.5-mm x 75-mm. The fabric shall be installed with the 75-mm dimension horizontal to the ground.

The 1.2-m gate (Type anti-climb) shall consist of a 1.2-m gate panel.

The 2.4-m gate (Type anti-climb) shall consist of two 1.2-m gate panels.

The 4.8-m gate (Type anti-climb) shall consist of two 2.4-m gate panels.

CONSTRUCTION

Anti-climb fence, including concrete anchor for the fence post and gate shall be installed in conformance with Manufacturer's specifications.

MEASUREMENT AND PAYMENT

The contract price paid per meter for anti-climb fence shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing of the anti-climb fence , complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

The contract unit price paid for anti-climb gate for various sizes as listed in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing of the anti-climb gates, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

10-1.1385 CHAIN LINK FENCE AND GATE (TYPE CL-2.4,WITH EXTENSION ARM)

Chain link fence and gate shall be (Type CL-2.4) with barbed wire extension arms, at locations shown on the plans, and shall conform to the provisions in Section 80, "Fences," of the Standard Specifications, and these special provisions.

Chain link fence and gate shall be stained in compliance with the requirements under "Staining Galvanized Chain Link Fence and Gate Surfaces," of these specifications.

1. The 1.5-m gate (Type CL-2.4,) with barbed wire extension arms shall consist of a 1.5 -m gate panel.
2. The 2.4-m gate (Type CL-2.4,) with barbed wire extension arms shall consist of a 2.4 -m gate panel.
3. The 3.6-m gate (Type CL-2.4,) with barbed wire extension arms shall consist of two 1.8-m gate panels.

Barbed wire supporting arms (extension arms) shall extend upwards from the tops of the fence posts at an approximate angle of 45 degrees and shall be fitted with clips or other suitable means for attaching 3 lines of barbed wire. The top outside wire shall be attached to the extension arm at a point approximately 300 mm above the top of the chain link fabric and 300 mm out from the fence line. The other wires shall be attached to the arm uniformly between the top of the fence and the top outside wire.

Barbed wire shall conform to the provisions in Section 80-3.01C, "Barbed Wire," of the Standard Specifications.

The chain link fabric shall be 9-gage (3.76 mm).

10-1.1386 STAINING GALVANIZED CHAIN LINK FENCE AND GATE SURFACES

All visible surfaces of galvanized chain link fence and gate (Type CL-2.4 with extension arm) including barbed wire and appurtenances must be stained to achieve a rustic brown color with a matte finish in conformance with these special provisions.

MATERIALS

The stain must consist of a clear soluble solution of soft buffered organic acids that accelerates the oxidization process without compromising the protective qualities of the galvanized surfacing. Do not add pigment based colorants to achieve the desired color. The stain must react with the chain link fence and gate surface over a period of 14 days to produce a rustic brown color with a matte finish. The stain must be resistant to fading in the sun.

CONSTRUCTION

Preparation

All visible surfaces to be stained must be free of excessive oils, dirt, and other contaminants, and must be dry before application of stain.

Application

After areas to be stained have been prepared and the sample approved, apply stain to all chain link fence and gate surfaces and appurtenances. Apply stain according to the manufacturer's instructions to achieve a color consistent with the approved sample. Minimize overspray. Do not perform spray application under windy or rainy conditions.

Stain must be applied uniformly. Irregularities must be corrected according to the stain manufacturer's recommendations.

Stained surfaces must be kept dry for a period of 14 days following the application of stain.

Submittals

Submit the following items to the Engineer 7 days prior to staining:

1. A copy of the stain manufacturer's product Material Safety Data Sheet, written stain application instructions, and the location and date of staining sample section.
2. Certificate of Compliance for the stain under Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.
3. Proposed methods to control overspray, spillage, and protection of adjacent surfaces for staining work occurring at the job site.

Quality Control and Assurance

Sample Section

Apply stain to a minimum 300-mm x 300-mm sample section of chain link fence and gate. Notify the Engineer not less than 7 days before staining the sample section. Prepare and stain the sample section with the same materials, tools, equipment and methods to be used in staining final surfaces. The applied stain must be allowed to cure for a minimum of 14 days before the Engineer's inspection. In the event more than one sample section is required by the Engineer, each additional sample section will be paid for as change order work. Use the approved sample section as the standard of comparison in determining acceptability of staining.

PAYMENT

The contract price paid per linear meter for staining galvanized chain link fence and gate surfaces includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in staining galvanized chain link fence and gate surfaces, complete in place, including Type CL-2.4 with extension arm, barbed wire and appurtenances as shown on the plans, and as specified in these special provisions.

10-1.1395 CANTILEVER SWING GATE (TYPE BI-FOLD SPEED GATE)

This work includes furnishing and installing the cantilever swing gates (Type bi-fold speed gate), including gate columns and foundations, in conformance with the provisions in Section 80, "Fences," of the Standard Specifications and these special provisions.

Comply with "YBI Electrical Utility Relocations," of these special provisions, for electronically controlled gate operators, vehicle detection systems, control boards, and the interfaces of the cables, conduits and hardware requirements to integrate the gate installation and operation with the guard booth security system.

The cantilever swing gates (Type bi-fold speed gate) shall match the appearance and material of the adjacent type metal fence. The bi-fold speed gates shall be installed in compliance with the manufacturer's specifications.

Each 5.486-m cantilever swing gate (Type bi-fold speed gate) shall consist of 4 folded gate panels.

Gate Operators and Vehicle Detection Systems

The cantilever swing gates (Type bi-fold speed gate) and electrically controlled gate operators shall be from one of the following manufacturers or equal:

1. Wallace International
90 Lowson Crescent, Winnipeg, Manitoba, Canada R3P 2H8
Telephone No.: (866) 300-1110
Model: PDXT Series Trackless SpeedGate
2. Advantage Gate Products
1744 Ackerman Drive, Lodi, CA 95240 USA
Telephone No.: (888) 491-4283
Model: QuickFold Vehicle Gates with X3 Gate Operators
3. Tymetal Corp.
4501 Dixie Farm Road, Pearland, TX 77581
Telephone No.: (888) 978-4283
Model: TYM-200-SW Commercial Bi-Parting Gate System

The gate operators and vehicle detection systems shall be compatible and operable with the existing United States Coast Guard (USCG) security system and access control system (ACS) in the USCG Sector Command Center in Building 100.

The gates shall be operated by the card key at the entry pedestal, by a manually operated button in the USCG guard booth and by a manually operated button in the security console in the USCG Sector Command Center in Building 100. The exit gate shall be operated automatically by a vehicle loop detector and by a manual button in both the guard booth and the security console in the USCG Sector Command Center in Building 100. Each gate shall have a control that allows the gate to be locked open.

The Contractor shall furnish and install loop detector systems in the paved surfaces as shown on the plans for Entry Loop, Safety Loop, and Exit Loop functions. The Contractor shall connect the loop detector system to the electric power and the control boards, and shall conform to the details as shown on the plans, the provisions in Section 86-5, "Detectors," of the Standard Specifications and these special provisions.

Control Boards

The Contractor shall provide three control boards in the horizontal counters in the guard booth. Two control board shall operate the "In" gates, and the other the "Out" gate.

The control boards shall contain all required input and output functions to the gate operators. The control boards shall include solid state motor controls, spike suppressors, safety alarms, and all other features required for a complete gate operation system.

The control boards, that operate the gates, shall be connected and integrated into the existing United States Coast Guard (USCG) security system.

PAYMENT

The contract unit price paid for cantilever swing gate (Type bi-fold speed gate) shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing of the cantilever swing gates (Type bi-fold speed gate) complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for installing gate operators, operated gate control hardware, vehicle detector systems, control boards, and electrical connections to the guard booth security systems, complete in place, as shown on the plans shall be considered as included in the contract lump sum price paid for YBI electrical utility relocations and no separate payment will be made therefor.

10-1.140 CANTILEVER SWING GATE (TYPE METAL)

Cantilever swing gate (Type Metal) shall conform to the provisions in Section 80, "Fences," of the Standard Specifications and these special provisions.

Comply with "YBI Electrical Utility Relocations", of these special provisions, for electronically controlled gate operators, operated gate control hardware, and vehicle detection systems.

The electrically controlled gate operators shall be a heavy duty gate operator from one of the following manufacturers:

1. Elite Access System Inc.
25741 Commercentre Drive, Lake Forest, CA 92630
Telephone No.: (949) 580-1700
Model: CSW-200-UL-1HP-PK
2. Doorking, Inc.
120 Glasgow Ave. Inglewood, CA 90301
Telephone No.: (800) 826-7493
Model 6300 – 1HP motor
3. Eagle Access Control Systems, Inc
3133 Saticoy St. North Hollywood, CA 91605
Telephone No.: (818) 764-6690
Model Eagle 200-DM
or equal

The gates shall be operated by the card key at the entry pedestal. Each gate shall have a control that allow the gate to be locked open.

The Contractor shall furnish and install loop detector systems in the paved surfaces as shown on the plans for Entry Loop, Safety Loop, and Exit Loop functions.

PAYMENT

The contract unit price paid for cantilever swing gates of the types and sizes in the Engineer's Estimate shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in furnishing and installing of the cantilevered swing , complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

Full compensation for installing gate operators, operated gate control hardware, and vehicle detector systems, complete in place, as shown on the plans shall be considered as included in the contract lump sum price paid for YBI electrical utility relocations and no separate payment will be made therefor.

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	074034	TEMPORARY COVER	M2	4,050		
22	074035	TEMPORARY CHECK DAM	M	200		
23	074037	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	EA	12		
24	074038	TEMPORARY DRAINAGE INLET PROTECTION	EA	92		
25	074040	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	M2	27,500		
26	074041	STREET SWEEPING	LS	LUMP SUM	LUMP SUM	
27	074042	TEMPORARY CONCRETE WASHOUT (PORTABLE)	LS	LUMP SUM	LUMP SUM	
28	074056	RAIN EVENT ACTION PLAN	EA	90	500.00	45,000.00
29	074057	STORM WATER ANNUAL REPORT	EA	3	2,000.00	6,000.00
30	074058	STORM WATER SAMPLING AND ANALYSIS DAY	EA	210		
31	120090	CONSTRUCTION AREA SIGNS	LS	LUMP SUM	LUMP SUM	
32	120100	TRAFFIC CONTROL SYSTEM	LS	LUMP SUM	LUMP SUM	
33	120120	TYPE III BARRICADE	EA	28		
34	120161	TEMPORARY TRAFFIC STRIPE	M	3,260		
35	120165	CHANNELIZER (SURFACE MOUNTED)	EA	95		
36	129000	TEMPORARY RAILING (TYPE K)	M	290		
37	129100	TEMPORARY CRASH CUSHION MODULE	EA	25		
38	150605	REMOVE FENCE	M	30		
39	150608	REMOVE CHAIN LINK FENCE	M	680		
40	150620	REMOVE GATE	EA	6		

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101 (F)	192003	STRUCTURE EXCAVATION (BRIDGE)	M3	2,075		
102 (F)	192037	STRUCTURE EXCAVATION (RETAINING WALL)	M3	2,537		
103 (F)	192049	STRUCTURE EXCAVATION (SOLDIER PILE WALL)	M3	77		
104 (F)	193003	STRUCTURE BACKFILL (BRIDGE)	M3	945		
105 (F)	043673	STRUCTURE BACKFILL (BRIDGE) (CEMENT MODIFIED)	M3	610		
106 (F)	193013	STRUCTURE BACKFILL (RETAINING WALL)	M3	1,456		
107 (F)	193029	STRUCTURE BACKFILL (SOLDIER PILE WALL)	M3	189		
108 (F)	193116	CONCRETE BACKFILL (SOLDIER PILE WALL)	M3	572		
109	198250	GEOSYNTHETIC REINFORCEMENT	M2	7,470		
110	022867	EMBANKMENT CONFINEMENT SYSTEM	M3	9,280		
111	203002	EROSION CONTROL (COMPOST BLANKET)	M3	650		
112	022868	EROSION CONTROL (TYPE D)	M2	29,200		
113	022869	EROSION CONTROL (NETTING)	M2	14,200		
114	203021	FIBER ROLLS	M	3,220		
115	203026	MOVE-IN/MOVE-OUT (EROSION CONTROL)	EA	8		
116	022870	EROSION CONTROL (WIRE MESH BLANKET)	M2	1,390		
117	204031	TRANSPLANT PALM TREE	LS	LUMP SUM	LUMP SUM	
118	022871	25 MM WATER GALVANIZED STEEL PIPE	M	14		
119	022872	300 MM WATER DUCTILE IRON PIPE	M	350		
120	208304	WATER METER	EA	3		

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
121	208310	IRRIGATION SLEEVE	M	39		
122	208731	200 MM CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	M	330		
123	250401	CLASS 4 AGGREGATE SUBBASE	M3	2,240		
124	260201	CLASS 2 AGGREGATE BASE	M3	68		
125	260301	CLASS 3 AGGREGATE BASE	M3	5,700		
126	390132	HOT MIX ASPHALT (TYPE A)	TONN	6,840		
127	390161	HOT MIX ASPHALT (BRIDGE)	TONN	9		
128	394073	PLACE HOT MIX ASPHALT DIKE (TYPE A)	M	48		
129	043674	PLACE HOT MIX ASPHALT (BRIDGE)	M2	55		
130	401000	CONCRETE PAVEMENT	M3	24		
131	404092	SEAL PAVEMENT JOINT	M	47		
132	043675	STEEL SOLDIER PILE (W360 X 91)	M	2,126		
133	043676	915 MM DRILLED HOLE	M	870		
134	490566	FURNISH STEEL PILING (HP 360 X 132)	M	1,272		
135	490567	DRIVE STEEL PILE (HP 360 X 132)	EA	91		
136	490657	600 MM CAST-IN-DRILLED-HOLE CONCRETE PILING	M	112		
137	490663	1.5 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	37		
138	490669	2.1 M CAST-IN-DRILLED-HOLE CONCRETE PILING	M	38		
139	493487	2.4 M PERMANENT STEEL CASING	M	17		
140	500001	PRESTRESSING CAST-IN-PLACE CONCRETE	LS	LUMP SUM	LUMP SUM	

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
141	500050	TIEBACK ANCHOR	EA	96		
142 (F)	510051	STRUCTURAL CONCRETE, BRIDGE FOOTING	M3	582		
143 (F)	510053	STRUCTURAL CONCRETE, BRIDGE	M3	3,019		
144 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	M3	897		
145 (F)	510072	STRUCTURAL CONCRETE, BARRIER SLAB	M3	138		
146 (F)	043677	STRUCTURAL CONCRETE, APPROACH SLAB, (TYPE EQ (3) MOD)	M3	4		
147 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	M3	201		
148	510526	MINOR CONCRETE (BACKFILL)	M3	48		
149 (F)	511064	FRACTURED RIB TEXTURE	M2	465		
150 (F)	511106	DRILL AND BOND DOWEL	M	119		
151 (F)	043678	FURNISH PRECAST CONCRETE SLAB (BIKEPATH)	EA	36		
152 (F)	043679	ERECT PRECAST CONCRETE SLAB (BIKEPATH)	EA	36		
153	515041	FURNISH POLYESTER CONCRETE OVERLAY	M3	132		
154	515042	PLACE POLYESTER CONCRETE OVERLAY	M2	6,350		
155	043680	FURNISH POLYESTER CONCRETE OVERLAY (12MM)	M3	28		
156	043681	PLACE POLYESTER CONCRETE OVERLAY (12MM)	M2	2,310		
157	BLANK					
158 (F)	515072	CORE CONCRETE (0 - 50 MM)	M	59		
159 (F)	518051	PTFE SPHERICAL BEARING	EA	4		
160	043683	BIKEPATH EXPANSION JOINT	M	18		

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
181	043689	CLEAN AND PAINT (STEEL SOLDIER PILING)	LS	LUMP SUM	LUMP SUM	
182	590301	WORK AREA MONITORING	LS	LUMP SUM	LUMP SUM	
183	620901	150 MM ALTERNATIVE PIPE CULVERT	M	2		
184	620904	300 MM ALTERNATIVE PIPE CULVERT	M	150		
185	620909	450 MM ALTERNATIVE PIPE CULVERT	M	880		
186	620913	600 MM ALTERNATIVE PIPE CULVERT	M	210		
187 (F)	043690	CORRUGATED STEEL PIPE (ISOLATION SLEEVE)	KG	2,700		
188	680270	50 MM PLASTIC PIPE UNDERDRAIN	M	17		
189	680272	100 MM PLASTIC PIPE UNDERDRAIN	M	32		
190	022874	200 MM PLASTIC UNDERDRAIN	M	120		
191	680933	200 MM PERFORATED PLASTIC PIPE UNDERDRAIN	M	370		
192	022875	100 MM PLASTIC PIPE (SCHEDULE 80)	M	2,160		
193	700617	DRAINAGE INLET MARKER	EA	55		
194	705334	300 MM ALTERNATIVE FLARED END SECTION	EA	3		
195	705336	450 MM ALTERNATIVE FLARED END SECTION	EA	1		
196	705337	600 MM ALTERNATIVE FLARED END SECTION	EA	1		
197	022876	150 MM PVC SEWER PIPE	M	140		
198	721011	ROCK SLOPE PROTECTION (NO. 2, METHOD B)	M3	5		
199	721420	CONCRETE (DITCH LINING)	M3	12		
200	722020	GABION	M3	330		

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
201	729010	ROCK SLOPE PROTECTION FABRIC	M2	19		
202	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	M3	560		
203	731517	MINOR CONCRETE (GUTTER)	M	170		
204 (F)	750001	MISCELLANEOUS IRON AND STEEL	KG	7,685		
205 (F)	750497	MISCELLANEOUS METAL (RESTRAINER - BAR TYPE)	KG	1,600		
206 (F)	750498	MISCELLANEOUS METAL (RESTRAINER - CABLE TYPE)	KG	2,450		
207 (F)	750501	MISCELLANEOUS METAL (BRIDGE)	KG	16,300		
208 (F)	750505	BRIDGE DECK DRAINAGE SYSTEM	KG	2,000		
209	022878	TYPE METAL FENCE	M	290		
210	BLANK					
211	022879	CHAIN LINK FENCE (TYPE CL-1.2, BLACK VINYL-CLAD)	M	140		
212	022880	CHAIN LINK FENCE (TYPE CL-3.6, BLACK VINYL-CLAD)	M	100		
213	BLANK					
214	BLANK					
215	022883	1.5 M GATE (TYPE METAL)	EA	2		
216	BLANK					
217	BLANK					
218	BLANK					
219	022886	2.4 M X 3.0 M CHAIN LINK GATE (TYPE CL-3.6, BLACK VINYL-CLAD)	EA	1		
220	BLANK					

BID ITEM LIST
04-0120T4

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
261	022906	FIBER OPTIC SPLICE CLOSURE	EA	6		
262	022907	FIBER OPTIC CABLE (12-FIBER INDOOR/ OUTDOOR)	M	690		
263	022908	FIBER OPTIC CABLE (72-FIBER INDOOR/ OUTDOOR)	M	240		
264	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
265	022909	50 MM GAS PE PIPE	M	190		
266	022910	100 MM GAS PIPE	M	70		
267	022911	INSTALL FIRE HYDRANT	EA	1		
268	022912	BASKETBALL AND VOLLEYBALL COURT	LS	LUMP SUM	LUMP SUM	
269	994425	BENCH	EA	2		
270 (F)	994650	BUILDING WORK	LS	LUMP SUM	LUMP SUM	
271	994901	TRASH RECEPTACLE	EA	1		
272	BLANK					
273	024555	75 MM PVC SEWER PIPE	M	10		
274	024556	ANTI-CLIMB FENCE	M	420		
275	802942	CHAIN LINK FENCE (TYPE CL-2.4 EXTENSION ARM (METRIC)	M	420		
276	024557	1.2 M GATE (TYPE ANTI-CLIMB)	EA	1		
277	024558	2.4 M GATE (TYPE ANTI-CLIMB)	EA	4		
278	024559	4.8 M GATE (TYPE ANTI-CLIMB)	EA	1		
279	024560	STAINING GALVANIZED CHAIN LINK FENCE AND GATE SURFACES	M	430		
280	024576	1.5 M CHAIN LINK GATE (TYPE CL-2.4 EXTENSION ARM (METRIC)	EA	1		

BID ITEM LIST**04-0120T4**

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
281	802948	2.4 M CHAIN LINK GATE (TYPE CL-2.4 EXTENSION ARM (METRIC)	EA	1		
282	024561	3.6 M CHAIN LINK GATE (TYPE CL-2.4 WITH EXTENSION ARM	EA	1		
283	024562	5.486 M CANTILEVER SWING GATE (TYPE BI-FOLD SPEED GATE)	EA	3		
284	999990	MOBILIZATION	LS	LUMP SUM	LUMP SUM	

**TOTAL BID
FOR ITEMS:**

\$ _____

**TOTAL BID
FOR TIME FOR
DESIGNATED
PORTION OF
WORK:**

_____ X \$24,000 = \$ _____
**WORKING DAYS BID
FOR DESIGNATED
PORTION OF WORK
(Not to exceed 610 Days)** **COST PER DAY**

**TOTAL BID COMPARISON
(COST PLUS TIME FOR DESIGNATED PORTION OF WORK):**

\$ _____